

CLAIMS

1. A device for recording data on a recording medium which can be written by a recording head unit which produces a recording energy beam, the device comprising:

- 5                   - a control assembly for controlling the intensity of the recording beam,
- a set of measures for supplying control data to said control assembly comprising a measuring circuit for measuring the quality of the recorded signals,
- 10                  - a database relating to the medium for supplying previous data to said control assembly,

characterized in that the set of measures comprises additional measuring circuits of the recorded signal.

2. A device as claimed in claim 1, characterized in that at least one of the measuring circuit determines parameters through measurements from real-time recording conditions.

3. A device as claimed in claim 1 or 2, characterized in that at least one of the measuring circuits is a jitter measuring circuit.

4. A device as claimed in claim 1 or 2 or 3, characterized in that at least one of the measuring circuits is a temperature measuring circuit that operates in real time during recording.

5. A device as claimed in claim 4, characterized in that the temperature measuring circuit is in the form of a circuit for measuring threshold current needed by the semiconductor laser to which on the light.

6. A device as claimed in claim 1 to 5, characterized in that at least one of the parameters supplied to the control control assembly is related to the scanning velocity at which the recording take place.

7. A device as claimed in claim 1 or 6, characterized in that at least one of the measuring circuits is a tilt measuring circuit that operates in real time during recording.
8. A device as claimed in one of the claims 1 to 7, characterized in that at least part of the database is contained at a location of said medium.
9. A device as claimed in one of the claims 1 to 8, characterized in that at least part of the database is contained in one of its memory circuits.
10. A device as claimed in one of the claims 1 to 9, characterized in that the recording medium is in the form of an optical disc.
11. A recording method implemented in a device as claimed in one of the claims 1 to 10, characterized in that it comprises the following steps:
- insertion of a medium to be recorded,
  - identification of the medium,
  - rejection of the medium if it is unsuitable for recording,
  - test recording based on said previous data,
  - reading of the test recording,
  - determining the recording power based on the level of the recorded signals,
  - entering a possible correction of said recording power as a function of jitter data,
  - entering a possible correction as a function of temperature, scanning speed of the disc, the amount of disc tilt or any other parameter that influences substantially the quality of the recorded data,
12. A method as claimed in claim 11, characterized in that the step relating to the correction as a function of temperature, scanning speed, or any other parameter is carried out in real time during the recording of data.
13. A recording medium obtained by the implementation of the method as claimed in one of the claims 11 or 12.
14. A recording medium as claimed in claim 13, characterized in that it is in the form of an optical disc.